Fig. 1

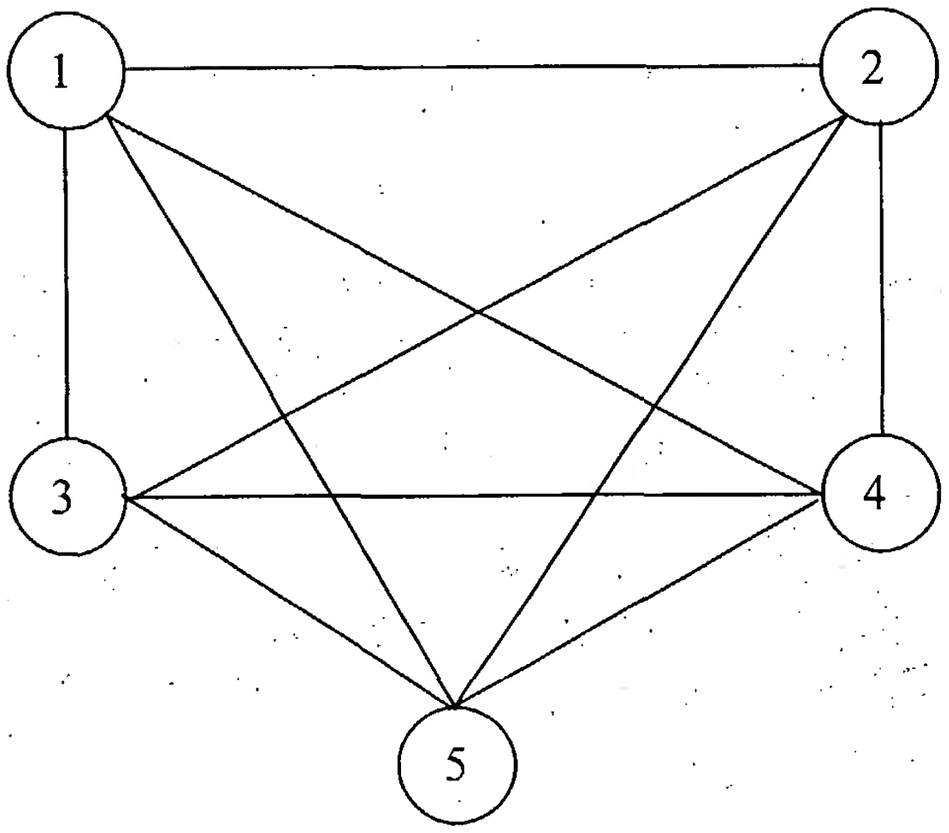


Fig. 2

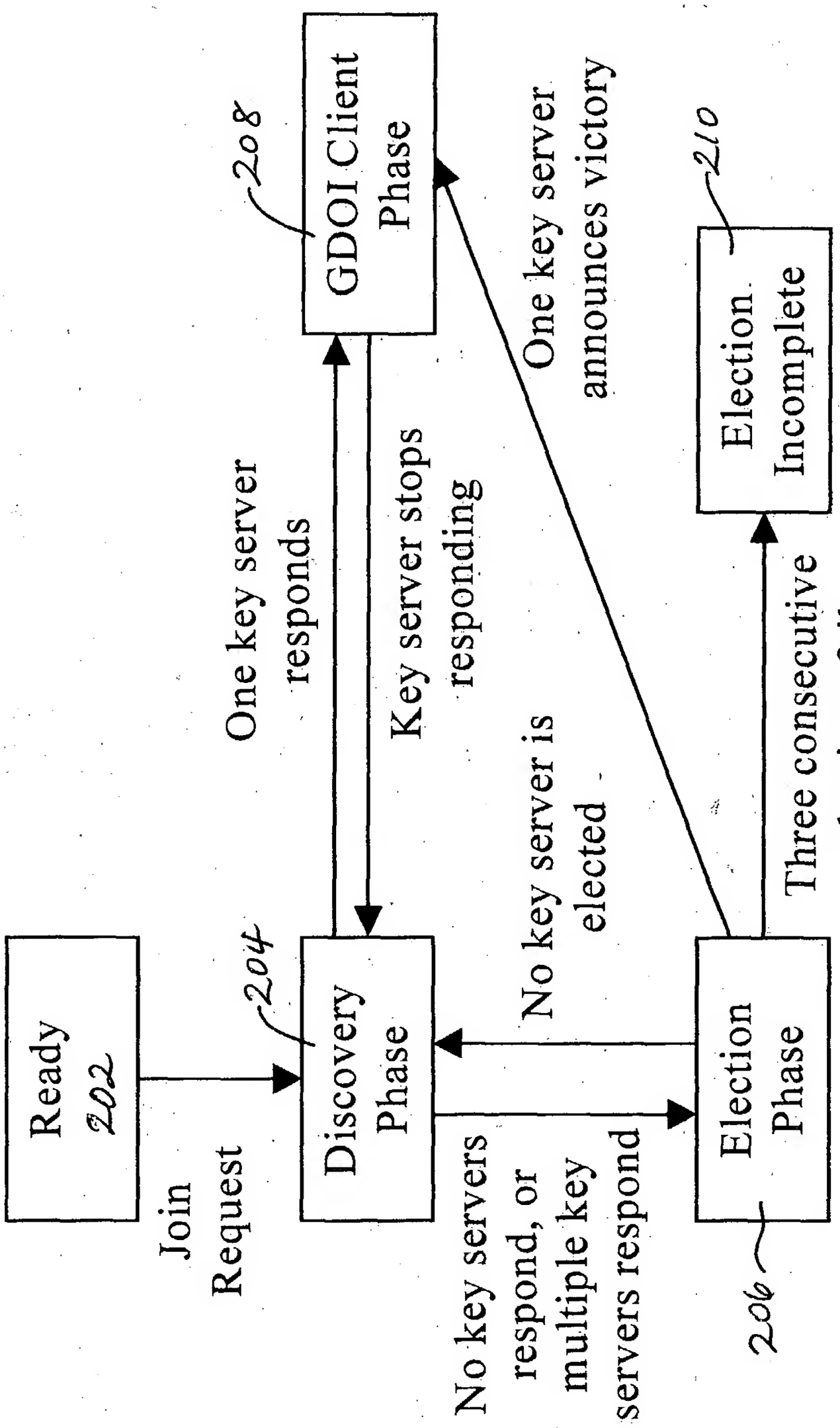

Ready
202
Join Request
Discovery Phase
204
No key servers respond, or multiple key servers respond
One key server responds
Key server stops responding
No key server is elected
Election Phase
206
Three consecutive elections fail
Election Incomplete
210
One key server announces victory
GDOI Client Phase
208

Fig. 3

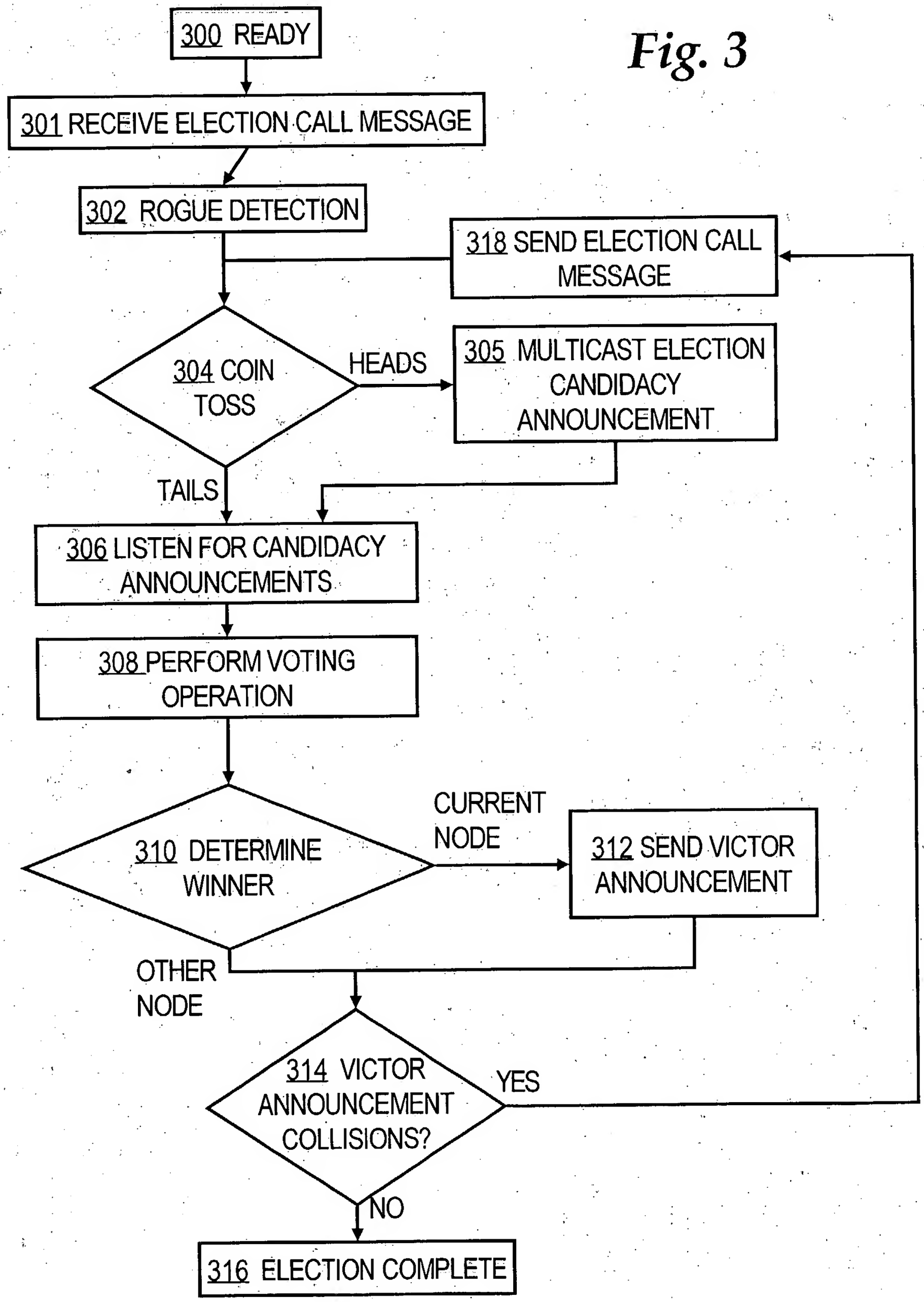

300 READY
301 RECEIVE ELECTION CALL MESSAGE
302 ROGUE DETECTION
318 SEND ELECTION CALL MESSAGE
304 COIN TOSS
HEADS
305 MULTICAST ELECTION CANDIDACY ANNOUNCEMENT
TAILS
306 LISTEN FOR CANDIDACY ANNOUNCEMENTS
308 PERFORM VOTING OPERATION
310 DETERMINE WINNER
CURRENT NODE
312 SEND VICTOR ANNOUNCEMENT
OTHER NODE
314 VICTOR ANNOUNCEMENT COLLISIONS?
YES
NO
316 ELECTION COMPLETE

Fig. 4

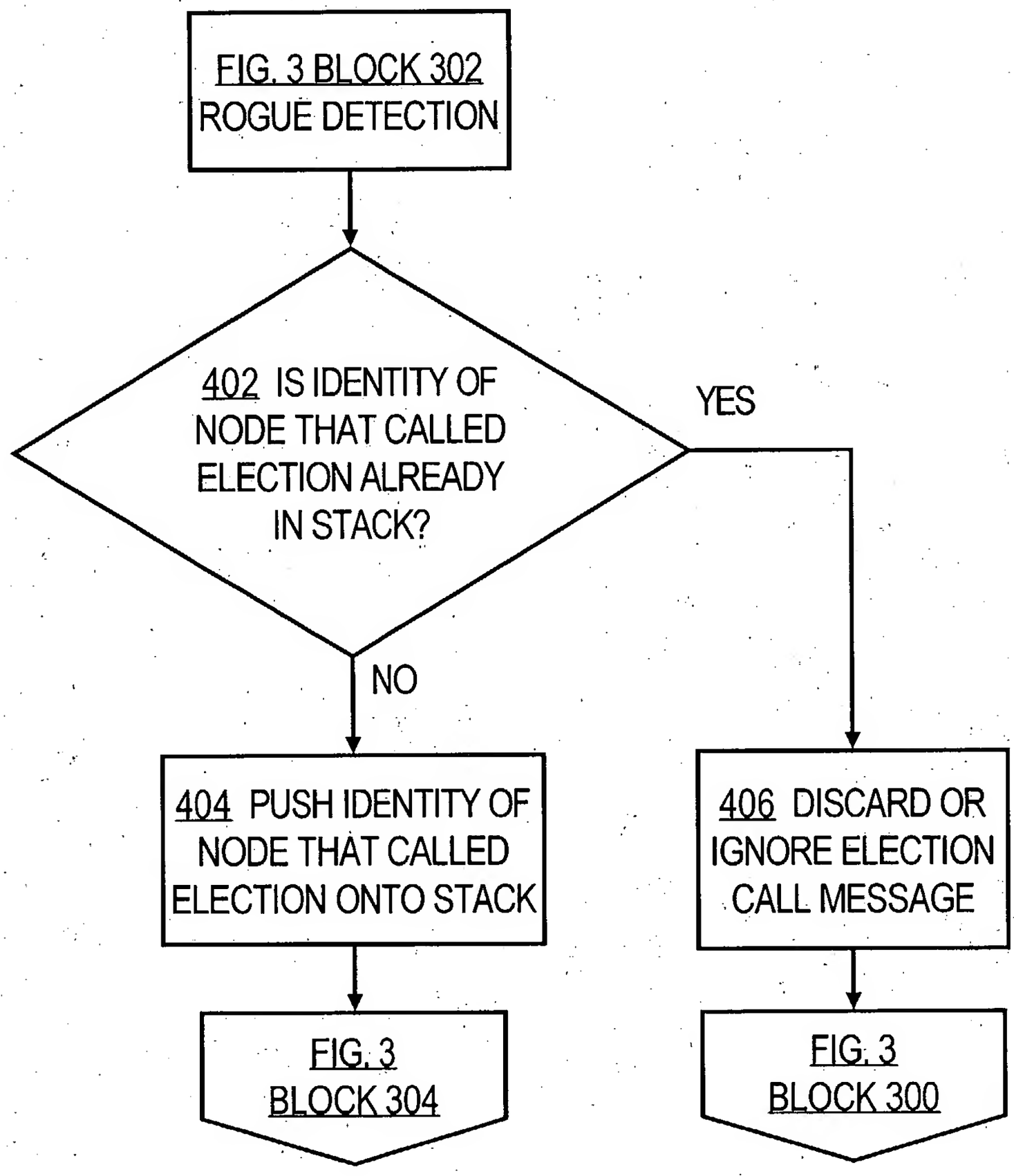
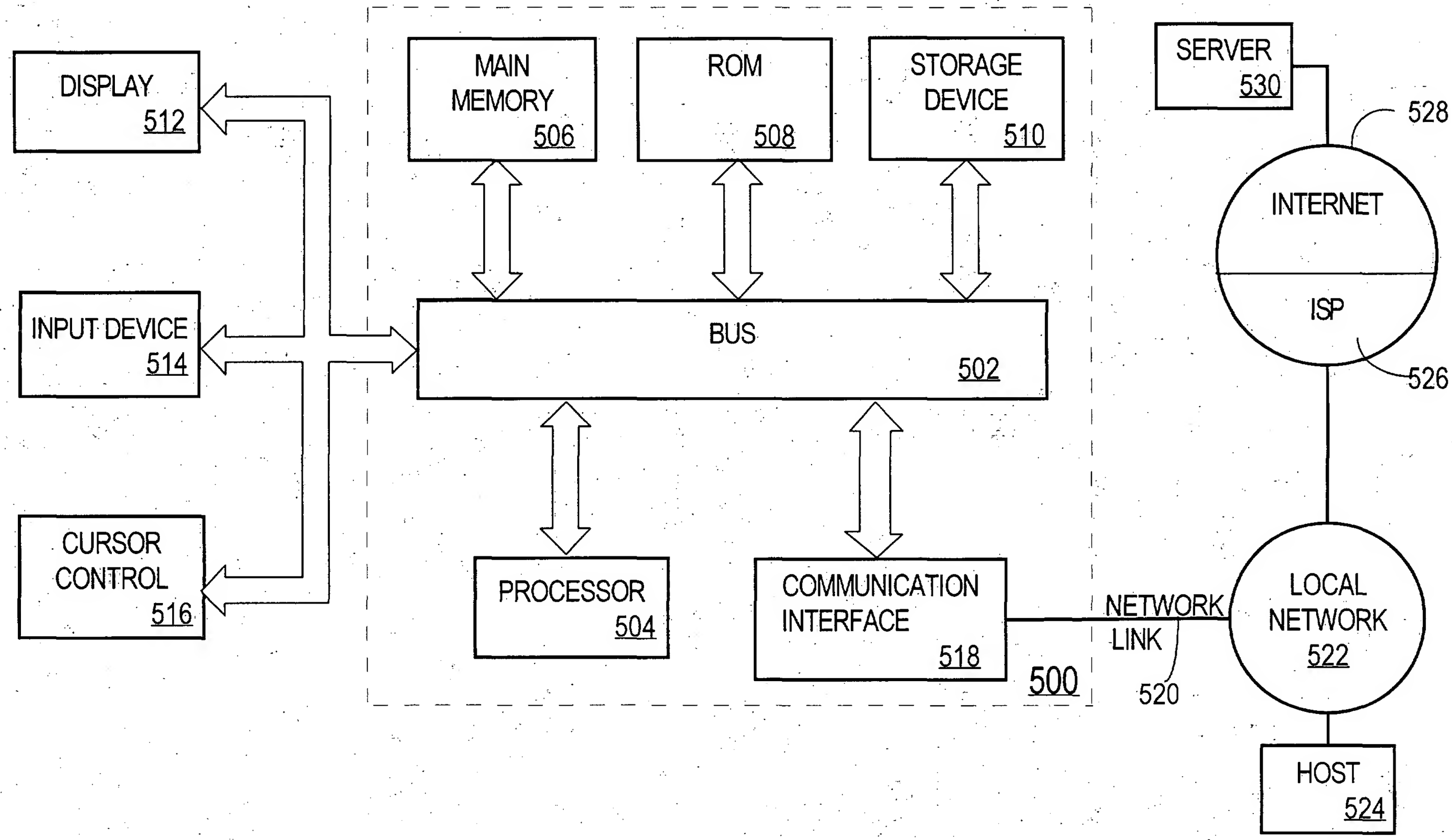


FIG. 3 BLOCK 302
ROGUE DETECTION
402 IS IDENTITY OF NODE THAT CALLED ELECTION ALREADY IN STACK?
YES
NO
404 PUSH IDENTITY OF NODE THAT CALLED ELECTION ONTO STACK
406 DISCARD OR IGNORE ELECTION CALL MESSAGE
FIG. 3 BLOCK 304
FIG. 3 BLOCK 300

FIG. 5



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